



Solar energetic particle events, hard X-ray and radio emissions - the SEPServer project

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Solar energetic particle (SEP) events are a rare occasion to measure directly energetic particles accelerated in an astrophysical environment, and they are a major space hazard. Understanding where and how the particles are accelerated and how they propagate through interplanetary space is a challenge in heliophysics. The SEPServer project, funded since December 2010 by the European Union under the FP7 scheme, aims at building a database of SEP events and associated electromagnetic emissions of energetic particles, especially hard X-rays and radio waves. In early 2012 a prototype database is running and holding data of the 23rd and early 24th solar activity cycles from different particle (SoHO, ACE, Wind, Ulysses, STEREO), hard X-ray (INTEGRAL, RHESSI) and radio instruments (Potsdam, Athens, Nançay and the Wind spacecraft). In this contribution the SEPServer concept will be briefly presented, the present status described, and the relationship between the early phases of some SEP events and the associated radio and hard X-ray emissions will be illustrated for a few events.